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R31Sn Cp.2 WATER SUPPLY OUTLOOK FOR JAN 30 75 ARIZONA

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U. S. DEPARTMENT of AGRICULTURE * SOIL CONSERVATION SERVICE

Collaborating with SALT RIVER VALLEY WATER USERS ASSOCIATION

and ARIZONA WATER COMMISSION JAN. 15, 1975

CURRENT SEMALACO

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report. Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

> Cover Photo: Cabins near Saccjawea Snow Course in Bridger Mountains, Montana.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 111, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	204 E. 5th. Ave., Room 217, Anchorage, Alaska 99501
Arizona	6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P.O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1218 S. W. Washington St., Portland, Oregon 97205
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82601

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Bax 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia



USDA SCS PORTLAND OREG 1974

WATER SUPPLY OUTLOOK FOR ARIZONA

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and FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

KENNETH E. GRANT ADMINISTRATOR SOIL CONSERVATION SERVICE WASHINGTON, D.C.

Released by

GEORGE C. MARKS STATE CONSERVATIONIST SOIL CONSERVATION SERVICE PHOENIX, ARIZONA

In Cooperation with

WESLEY E. STEINER EXECUTIVE DIRECTOR ARIZONA WATER COMMISSION KARL F. ABEL PRESIDENT SALT RIVER VALLEY WATER USERS ASSOCIATION

Report prepared by

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SOIL CONSERVATION SERVICE ROOM 6029 FEDERAL BUILDING PHOENIX, ARIZONA 85025



Looking east toward Escudilla Mountain from Mt. Ord ARIZONA SUMMARY as of JANUARY 15, 1975

BELOW AVERAGE WATER SUPPLIES ARE ANTICIPATED FOR THE 1975 SEASON. BOTH RESERVOIR STORAGE AND EXPECTED SPRING RUNOFF ARE BELOW NORMAL. SNOW COVER IS ALSO BELOW AVER-AGE, ALTHOUGH SOIL MOISTURE CONDITIONS ARE VERY GOOD.

SNOW COVER

Several light storms the last thirty days, accompanied by cold temperatures, have left most of the watersheds above 5,500 feet snow-covered. Moderate snow depths were reported, but the water contents are low. Snow cover varies from 60% of average on the Salt and Gila Watersheds to 87% on the Verde. The Flagstaff-Mormon Lake area is the only portion of the state with above average snow cover. The deepest snow measured was in the White Mountains at an elevation of 11,000 feet, where there was $6\frac{1}{2}$ feet of snow.

PRECIPITATION

Accumulated precipitation since November 1 has been about half of normal on all watersheds. Considering the heavy storm during the last few days of October, winter moisture is not as bad as it first appears.

SOIL MOISTURE

Soil moisture has been very good since the heavy October storms. Water runoff yields can be expected to be good if precipitation is near normal the next three months.

RESERVOIR STORAGE

Salt River Project reservoirs collectively are about half full. This is slightly below average for this date, although much below last year. Most other reservoirs in the state are also slightly below average except San Carlos Reservoir, which contains 70% above average.

STREAMFLOW!

December and January streamflow has been very low due to light precipitation and the extended cold weather. With the recent warming, however, river flows will pick up somewhat.

The January through May runoff is expected to be much below average, ranging from one-third of average on the Gila and Little Colorado to two-thirds of average on the Verde.

STREAMFLOW FORECASTS, JANUARY THROUGH MAY

Salt	161,000 a.f.	50% of	1958-72 average	
Verde	128,000 a.f.	67%	11	
Tonto	19,000 a.f.	41%	11	
Gila	50,000 a.f.	32%	11	
Little Colorado	4,000 a.f.	35%	11	

WATER SUPPLY

Water supplies will be adequate for all areas of Arizona served by the major reservoirs. Sections depending on direct diversion may expect another year of below average water supply.

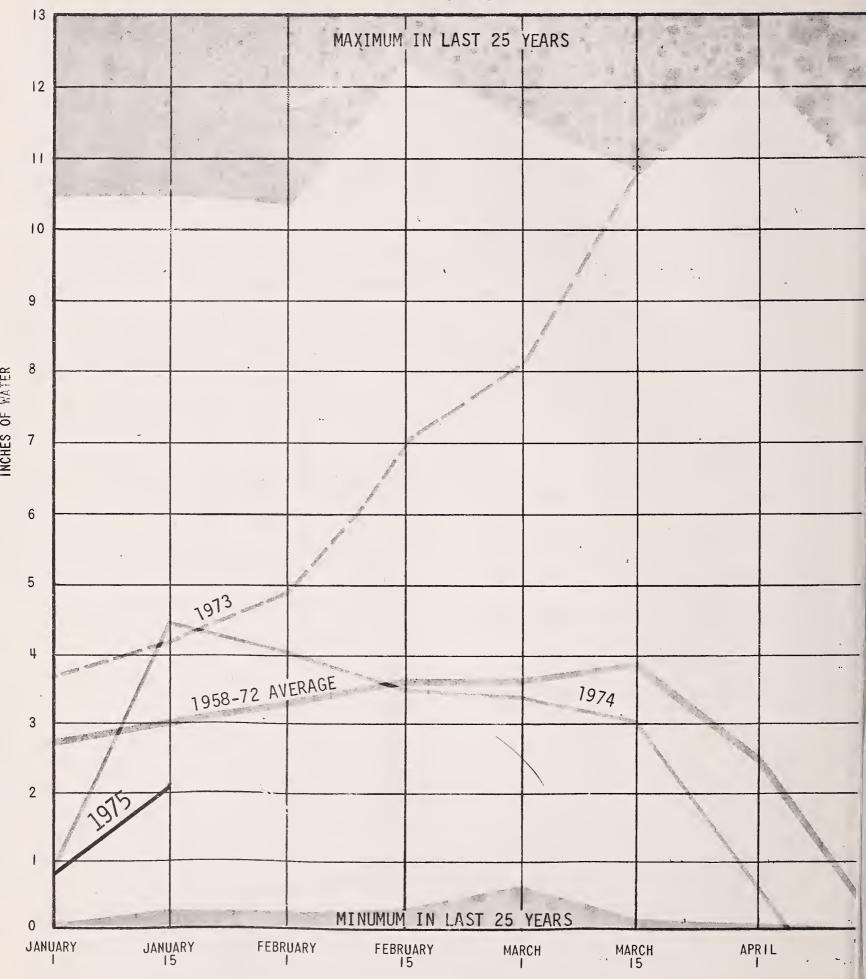
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RESERVOIR STORAGE (Thousand Acre Feet) MID-MONTH READING ABOUT JANUARY 15, 1975

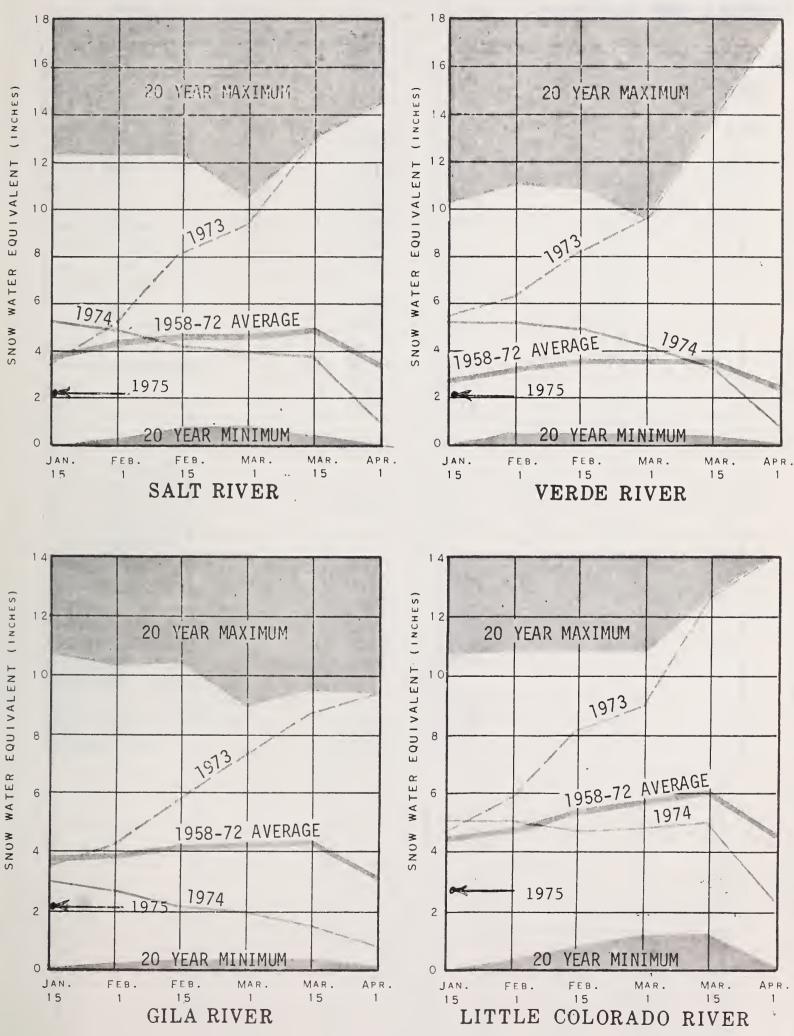
ESERVOIR STORAGE (THO	ISAND ACTE FEET) MID-MONTH R	Usable	ABOUT JANL	IARY 15, 19 Usable Storage	1.5
BASIN or STREAM	RESERVOIR	Capacity	This Year	Last Year	Average +
GILA RIVER DRAINAGE					
Agua Fria	Lake Pleasant	157.6	56.7	106.2	58.5
Granite	Watson Lake	4.7	1.2	1.3	2.3
Granite	Willow Creek	6.1	. 1.0	3.2	2.1
Gila	San Carlos	948.6	267.7	615.9	157.7
Salt (4)	Roosevelt, Apache, Canyon & Saguaro	1,755	1007.9	1412.0	. 1043.0
Verde (2)	Bartlett and Horseshoe	317.7	46.5	115.3	111.7
Salt and Verde	6 Salt River Project Reser- voirs	2,073	1054.4	1527.0	1155.0
COLORADO RIVER DRAINAGE					
Colorado	Lake Havasu	619.4	537.3	557.9	540.5
Colorado	Lake Mohavé	1,810	1625.6	1709.0	1636.0
Colorado	Lake Mead	26,159	19,899.0	19,934.0	17,386.0
Colorado	Lake Powell	25,002	17,286.0	17,429.0	7,294.0
Little Colorado	Lyman	30.6	11.2	23.6	12.4
Little Colorado	Show Low Lake	5.1	0.4	0.5	1.4
+ Based on 15-year * Average is for l	period, 1958-72 Less than 15 years of	record		•	
			÷.		
	1		1	J	+ 1958-1972 perio

AVERAGE SNOW COVER ARIZONA 1975



This graph represents the average snow water content on eleven selected snow courses on Arizona Sub-Watersheds.





BASED ON SELECTED SNOW SURVEY COURSES

SUMMARY OF SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS) ABOUT JANUARY 15, 1975

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WA	TER AS PERCENT OF: Average
Gila	10	77	60
Salt	10	46	62
Verde	10	40	87
Little Colorado	5	58	67
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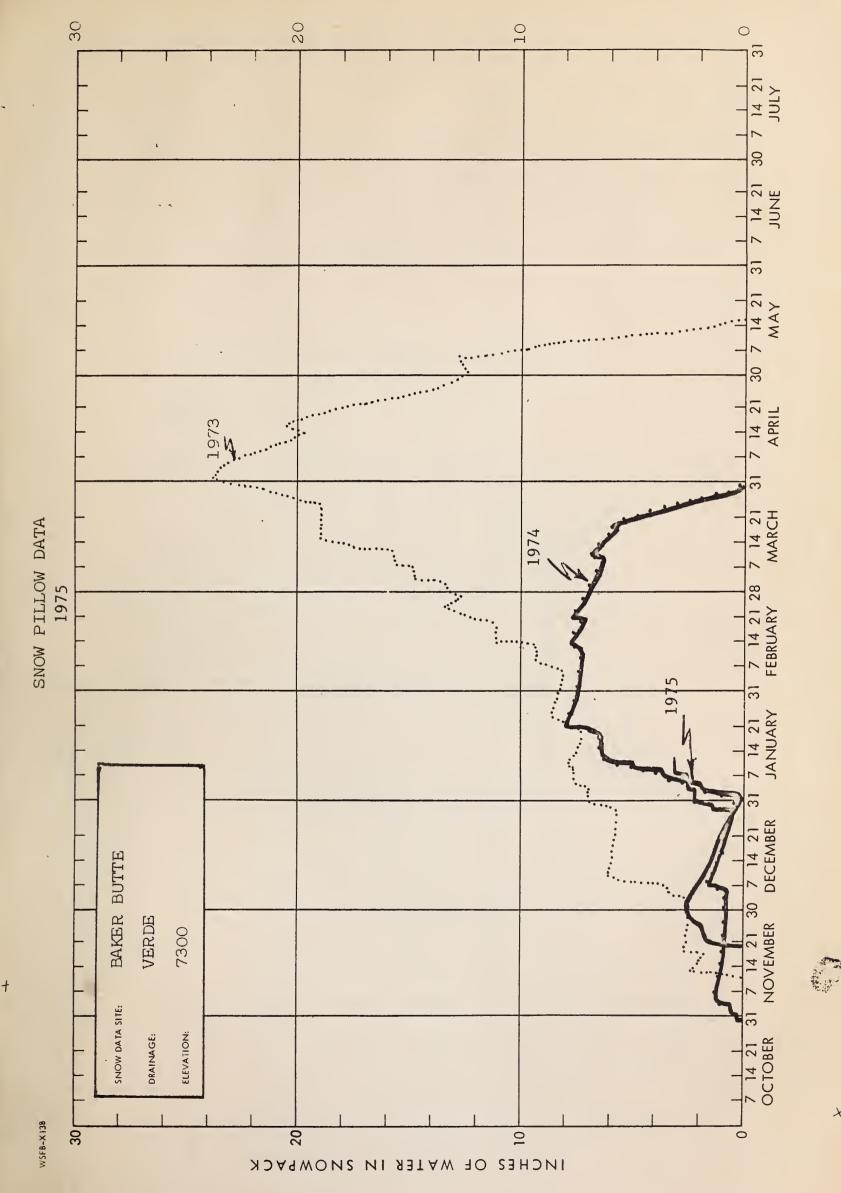
+ 1958-1972 period

Elevation 11200 '' 7300 '' 7700 '' 9125 8000 7500	Date of Survey 12/3 1/3 12/12 12/29 12/12 12/29 12/31 12/31	Snow Depth (Inches) 18 40 6 13 12 19 8 5	Water Content (Inches) 5.8 8.8 1.2 2.1 3.3 4.2 1.1		CORD FO THIS ERIOD
11200 " 7300 " 7700 " 9125 8000 7500	1/3 12/12 12/29 12/12 12/29 12/31 12/31	40 6 13 12 19 8	8.8 1.2 2.1 3.3 4.2 1.1	NO RE	CORD FO
" 7300 " 7700 " 9125 8000 7500	1/3 12/12 12/29 12/12 12/29 12/31 12/31	40 6 13 12 19 8	8.8 1.2 2.1 3.3 4.2 1.1		THIS
7300 " 7700 " 9125 8000 7500	12/12 12/29 12/12 12/ 29 12/31 12/31	6 13 12 19 8	1.2 2.1 3.3 4.2 1.1		1
" 7700 " 9125 8000 7500	12/29 12/12 12/ 29 12/31 12/31	13 12 19 8	2.1 3.3 4.2 1.1	Ρ	ERIOD
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9125 8000 7500	12/ 29 12/31 12/31	19 8	4.2 1.1		
8000 7500	12/31 12/31	8	1.1		
8000 7500	12/31				
7500			0.6		
	12/12	3	0.4		
7500	12/31	5	0.5		
7600	12/12	3	0.4		
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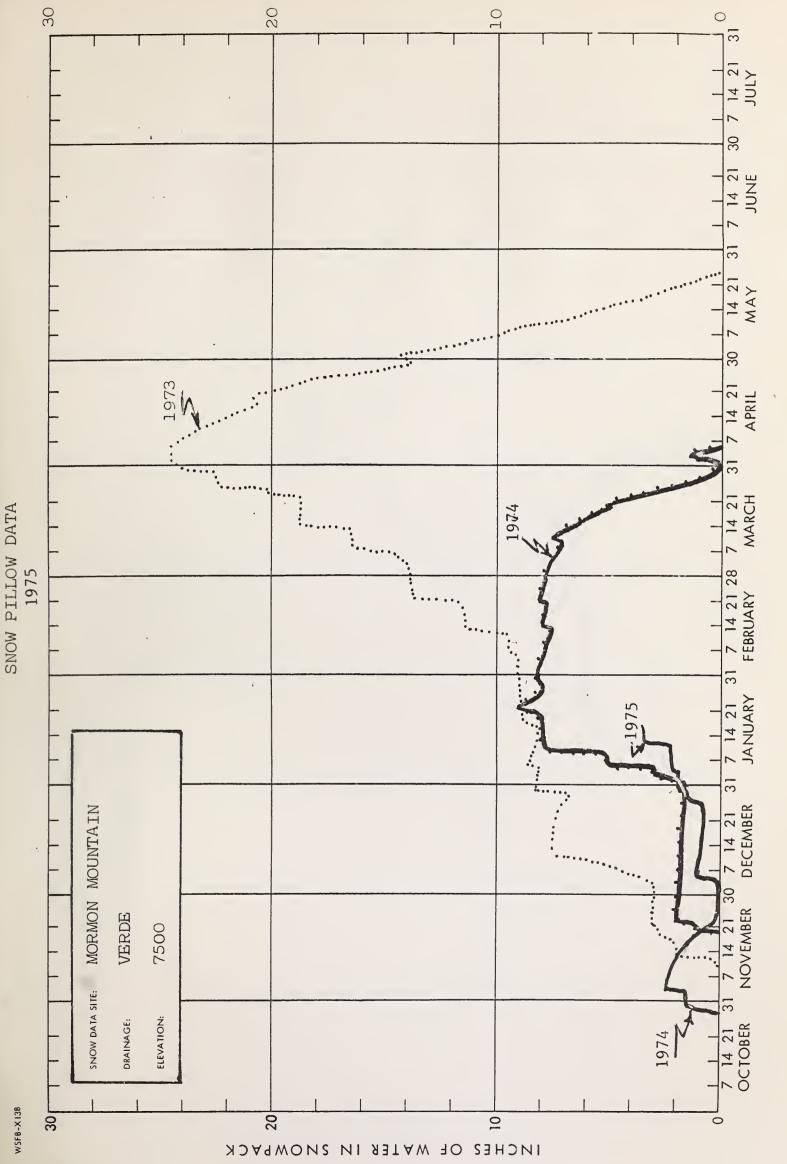
IOW ABOUT JANUARY 15, 1975			THIS YEAR	1		ECORD
DRAINAGE BASIN and/or SNOW COURSE	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	ent (inches) Average
NAME	Elevation	<u> </u>	1	<u> </u>	Listical	Average
ILA RIVER						
Bear Wallow	8100	1/14	6	1 5	1.0	
Beaver Head	8000	1	1	1.5	4.8	4.0
		1/14	9	1.8	2.9	3.0
Coronado Trail	8000	1/14	10	1.3	1.7	3.0
Emory Pass #1 *	7800	1/14	6	1.4	1.3	0.9*
Emory Pass #2 *	7800	1/14	8	1.9	1.2	2.0*
Frisco Divide	8000	1/14	10	1.6	2.3	2.5
Hannagan Meadows *	9 090	1/14	15	3.2	5.8	6.5*
Hummingbird (A)	10550	1/14	30	6.9	9.0	9.1*
McKnight Cabin * (A)	9300	1/14	12	2.2	3.0	3.4*
Mogollon	7000	1/14	5	1.4	1.0	1.7
Nutrioso	8500	1/14	12	1.6	1.6	2.1
Redstone Trail	8600	1/14	14	4.0	4.8	1
Rose Canyon	7300	1				6.1*
		1/14		0.2	3.4	2.6
Silver Creek Divide	9000	1/14	20	4.5	5.3	8.8*:
State Line	8000	1/14	10	1.8	3.4	2.7
Whitewater (A)	10750	1/14	39	8.6	10.9	10.9**
CRDE RIVER						
Baker Butte	7300	1/14	13	3.1	8.3	3.8**
Baker Butte #2	7700	1/14	19	4.9	11.3	1 3.0
Camp Wood	5700	1/14	0	0.0		0.7
Chalender *			1		2.8	0.7
	7100	1/14	5	1.5	3.9	1.8
Copper Basin Divide	6720	1/14	1	0.2	4.6	2.0**
Fort Valley	7350	1/14	. 4	1.0	3.3	1.2
Gaddes Canyon	7600	1/15	8	1.7	6.3	3.0
Happy Jack	7630	1/14	7	1.6	6.1	2.1
Iron Springs *	6200	1/14	1	0.1	1.6	0.9
Mingus Mountain	7100	1/15	0	0.0	1.8	1.0
Mormon Lake *	7350	1/14	14	3.4	5.8	2.4
Mormon Mountain	7500	1/14	13	3.4	7.3	2.9
Newman Park	6750	1/14	12	2.4	4.8	1.6**
Snow Bowl #1	10260	1/14	22	6.2	7.6	5.3**
Snow Bowl #2	11000	1/14	30	8.2	8.2	10.0**
White Horse Lake Jct.	7150	1/14	8	2.1	4.0	2.0**
White Spar	6000	1/14	0	0.0	2.5	1.0**
white opar	0000	1/14	0	0.0	2.5	1.0~~
WER COLORADO RIVER						
	0.5.5.0	1/1/	1./		7 7	1
Bill Williams Int.	8550	1/14	14	4.0	7.7	4.1**
Bill Williams Summit	8950	1/14	21	6.1	8.3	5.2**
Bright Angel	8400	NO	SURV	i	5.3	
Chalender *	7100	1/14	5	1.5	3.9	1.8
Fort Valley	7350	1/14	4	1.0.	3.3	1.2
0 1 0	7500	1/14	9	1.6	3.2	1.5 '
Grand Canyon						
Grand Canyon Williams Ski Run	7720	1/14	13	4.0	7.3	3.5**

OW ABOUT JANUARY 15, 1975			THIS YEAR		Water Conte	ECORD
DRAINAGE BASIN and/or SNOW COURSE		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average
NAME	Elevation	1				
SALT RIVER						
Baldy *	9125	1/14	17	3.3	5.1	4.9
Beaver Head	8000	1/14	9	1.8	2.9	3.0
Canyon Creek	7500	1/14	9	1.9	6.6	2.8
Canyon Point	7600	1/13	11	2.1	6.8	3.0
Coronado Trail	8000	1/14	10	1.3	1.7	3.0
Forest Dale	6430	1/14	6	1.3	3.1	1.4
Ft. Apache	9160	1/14	21	3.9	5.2	5.2
Hannagan Meadows	9090	1/14	15	3.2	5.8	6.5
Hawley Lake	8300	1/14	13	2.8	7.4	4.3
Heber	7600	1/14	8	1.9	6.2	
Maverick Fork	9050	1/14	18	3.7	6.1	5.8
McNary	7200	1/14	9	1.4	5.8	2.1
Milk Ranch	7000	1/14	6	1.2	4.8	1.5
Mt. Ord (A)	11000	1/15	67	12.1	13.1	14.5
Nutrioso *	8500	1/14	12	1.6	1.6	2.1
Smith Cienega (A) Sunríse Summit	9850	1/15	37	8.1	8.3	
Wilson Lake	10600 9000	1/13	30	6.6	7.1	7.3
Workman Creek	6900	1/13	22	4.3	8.7	4.3
Promontory Butte		1/14	12	2.6		4.5
	7930	1/14	15	4.6	11.8	
JITTLE COLORADO RIVER						
Baldy	9125	1/14	17	3.3	5.1	4.9
Canyon Creek	7500	1/14	9	1.9	6.6	2.8
Canyon Point	7600	1/13	11	2.1	6.8	3.0
Cheese Springs	8600	1/13	17	2.8	4.1	4.8
Forest Dale	6430	1/14	6	1.3	3.1	1.4
Ft. Apache	9160	1/14	21	3.9	5.2	5.2
Fort Valley	7350	1/14	4	1.0	3.3	1.2
Happy Jack *	7630	1/14	7	1.6	6.1	2.1
Heber	7600	1/14	8	1.9	6.2	2.9
Inner Basin #1	10100	1/3	30	7.1	4.4	
Inner Basin #2	9750	1/3	26	5.8	2.5	2.1
McNary Mormon Lake	7200 7350	1/14	9.	1.4	5.8	2.1
Mormon Lake Mormon Mountain	7350	1/14	14	3.4	5.8	2.4
Nutrioso *	8500	1/14	13	3.4	1.6	2.9
Snow Bowl #1	10260	1/14	22	1.6	7.6	5.3
Snow Bowl #2	11000	1/14	30	8.2	8.2	10.0
Wilson Lake	9000	1/14	22	4.3	7.1	7.3*
Promontory Butte	7930	1/13	15	4.6	11.8	
					11.0	
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• 1958-72 15-year period. (*	Adiacon	t draina	1 . 1 **) 1958-5	2 Adjus:	rod.
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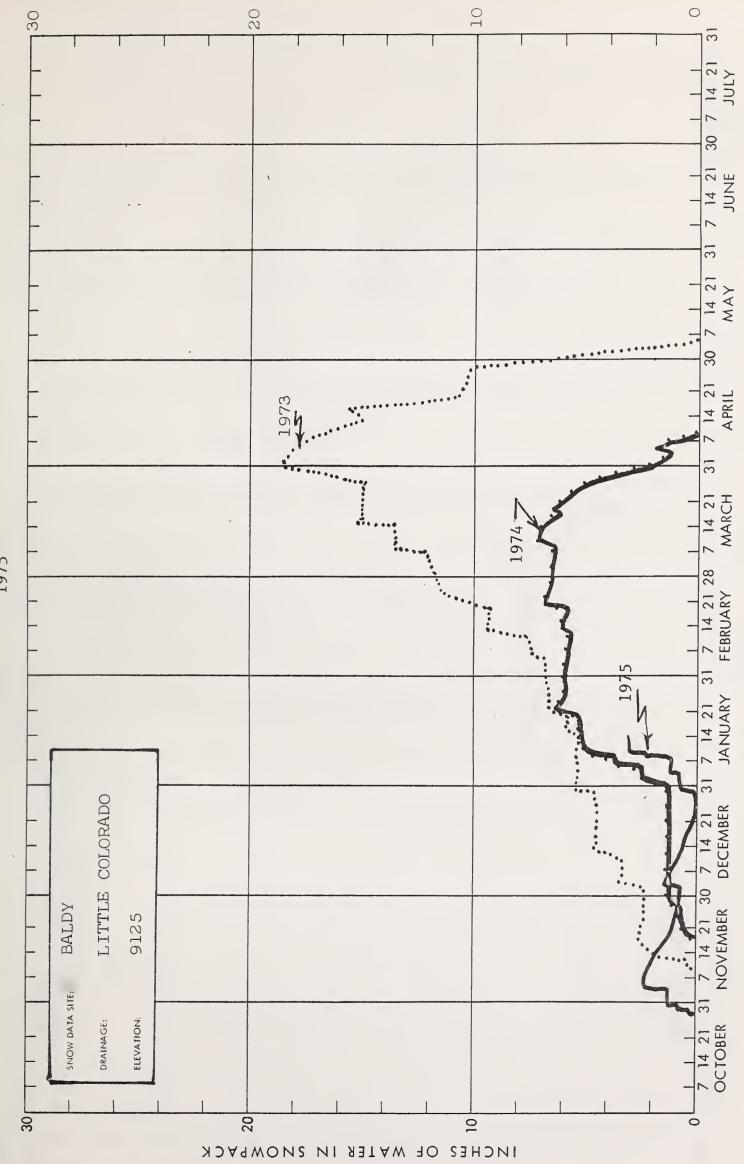
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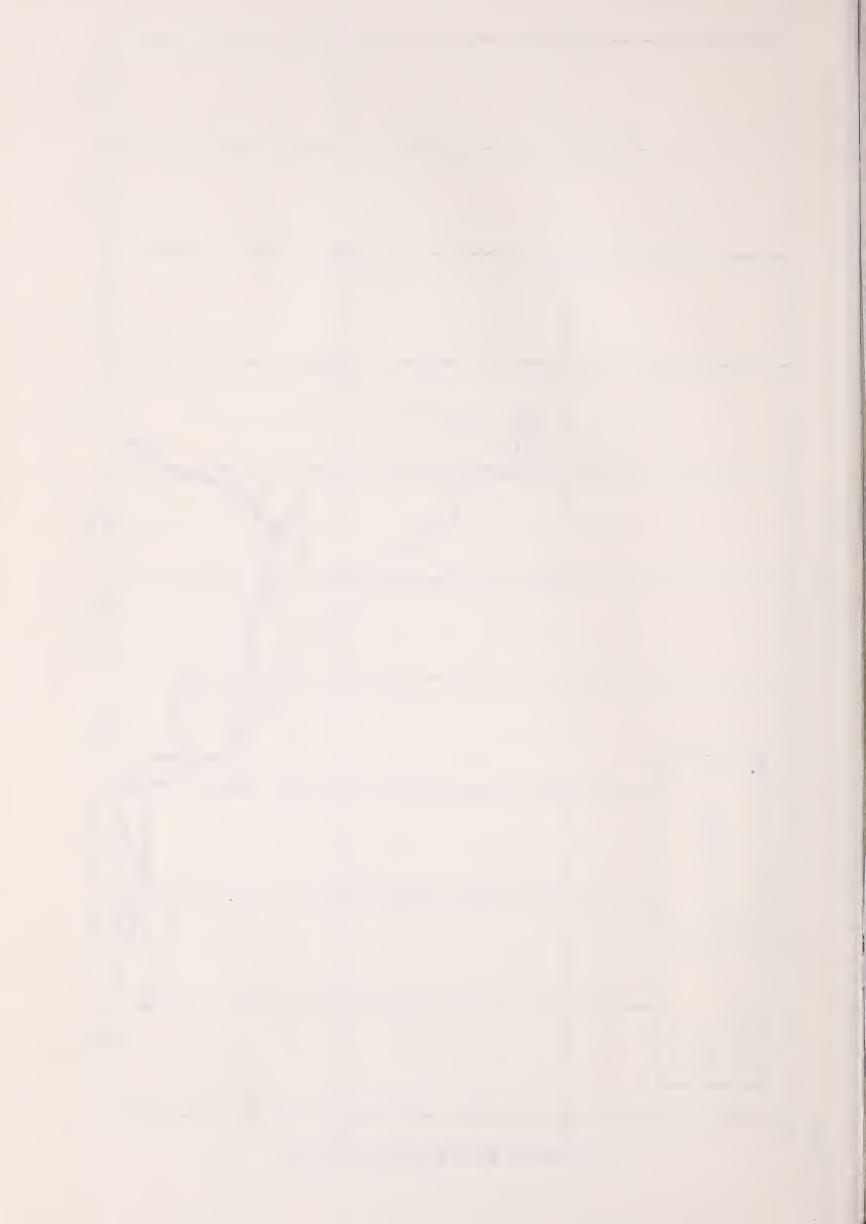


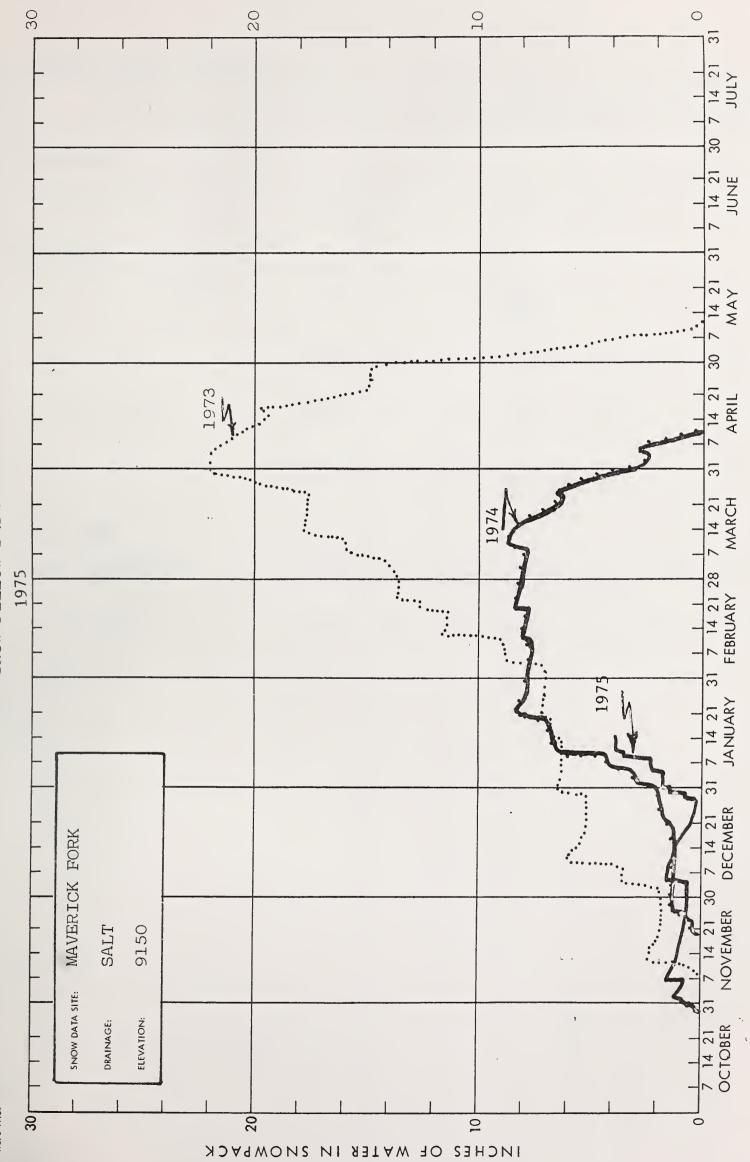


SNOW PILLOW DATA 1975

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SNOW PILLOW DATA

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SOIL MOISTURE ABOUT JANUARY 15, 1975

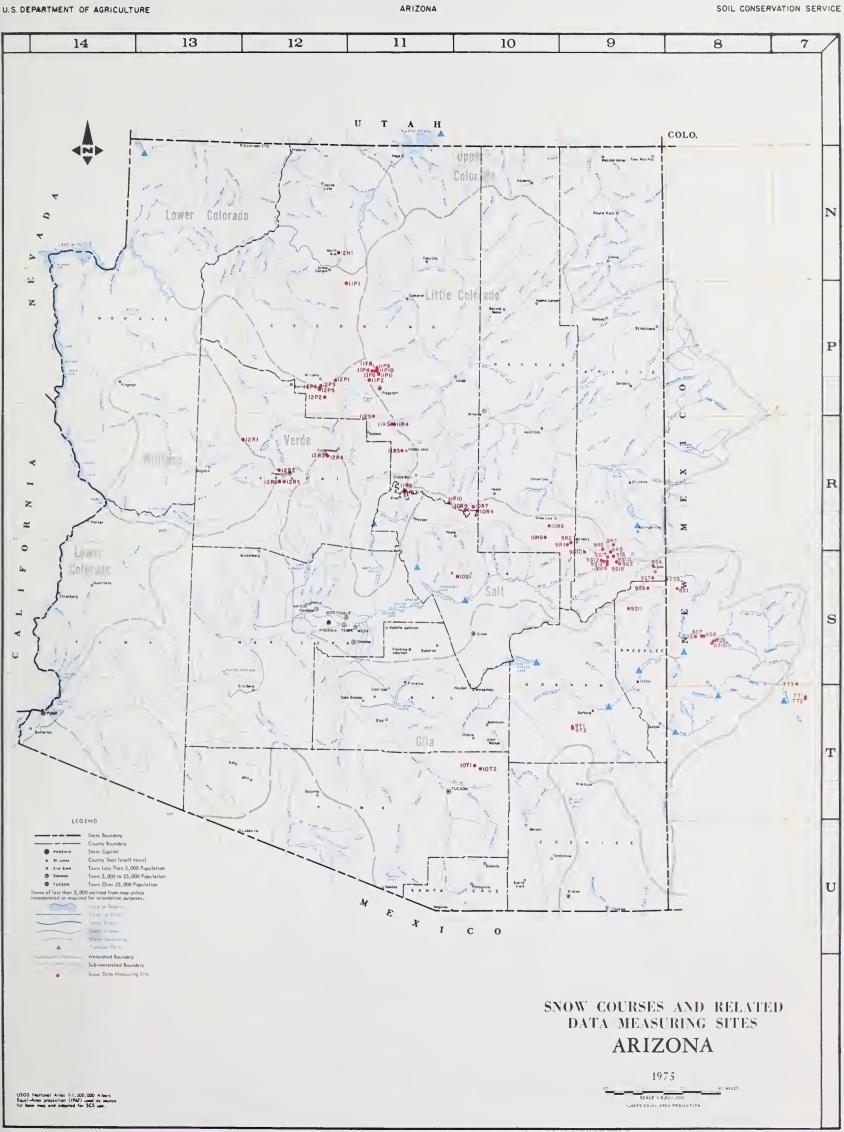
This Year 12.4 12.5 17.4 17.7	Last Year 6.0	Average 4
12.5		9.1
12.5		9.1
	14.1	
	14.1	
		16.1
14.3 16.3	13.7	15.3
8.8 7.9	6.6	8.8
17.9 17.9	13.6	14.8
13.7 14.3	13.3	15.0
15.1 15.9	12.5	15.7

PRECIPITATION AT SELECTED ARIZONA STATIONS 1/

		Precipitation (Inches)
STATION	MONTH:	PERIOD:
	DECEMBER	NOVEMBER THROUGH DECEMBER
Alpine	.54	0.74
Ash Fork	.12	0.12
Clifton	.38	1.23
Douglas	Trace	0.69
Flagstaff WSO*	1.18	2.18
Globe	.08	0.17
Heber	.66+	1.08
McNary	1.08	1.64
Payson Ranger Station	1.29+	. 2.30
Phoenix WSFO**	.59	1.03
Pleasant Valley	.82	1.17
Prescott (City)	.71	1.64
Safford	.17	0.34
Show Low	.73	0.73
Sierra Ancha	1.99	2.23
Springerville	.04+	0.18
Tonto Fish Hatchery	2.12	3.81
Tucson WSO*	.33	1.14
Williams	.53	1.29
Winslow WSO*	.27	0.39
Yuma WSO*	.14	0.14
1/ Data furnished National Weather WSO* Weather Service WSFO** Weather Service	by the Laboratory of r Service, Phoenix, 7 Office Forecast Office	Climatology, ASU, Tempe, Arizona and

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DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	Date of	Month's	Average +	This Year	Average +	TO DATE Percent o
		Reading	Precipitation			Average	Average
GILA RIVER							
Silver Creek Divide	9000	1/14	1.55	.83*	4.47	8.82*	51
Hannagan Meadows	9030	1/14	1.26	1.06	3.00	7.43	40
Frisco Divide **	8000	1/14	1.03		2.13		
SALT RIVER							
Canyon Point	7600	1/14	1.33	1.36*	4.13	9.62*	
Hannagan Meadows **	9030	1/14	1.26	1.06	3.00	7.43	40
Little Wildcat (Heber Snow Course)	7600	1/14	1.20	1.21	3.49	8.12	43
Maverick Fork	9050	1/14 1/14	1.47	1.01	4.33	6.93	43 62
Workman Creek **	6970	1/14	1.60	1.67	4.51	9.79	46
Wilson Lake	9100	1/13	1.65	1.26*	3.61	6.92*	
VERDE RIVER							
Baker Butte	7300	1/14	0.81	1.51*	5.24	9.58*	55
Copper Basin Divide	6720	1/14	0.10	.75*	2.66	6.03*	44
Fort Valley **	7350	1/14	0.54	.70	1.92	4.72	41
Happy Jack **	7480	1/14	0.57	.95	2.95	5.93	50
Mingus Mountain	7660	1/14	0.33	.70	2.50	4.86	51
Mormon Mountain White Horse Lake Jct.**	7500	1/14 1/14	1.87	1.11*	4.45 3.60	9.05*	49
LITTLE COLORADO		·	-				
Inner Basin #1	9830	1/3		1.03	5.051/	9.16	55
Inner Basin #2	10050	1/3		1.24*	6.101/		
Greer Lakes	8500	1/14	0.85	.49	1.95	3.82	51
Little Wildcat		-,					
(Heber Snow Course)	7600	1/14	1.20	1.21	3.49	8.12	43
Sheep Crossing							
(Baldy Snow Course)	9125	1/14	1.78	1.14	3.93	6.60	60
 † 1958-72 Average * Adjusted Average ** Data Supplied by U.S. Forest Service L/ Partially Estimated 							



INDEX to SNOW COURSES and SOIL MOISTURE STATIONS

	DEA LO SINOW							
NUMBER	NAME	<u>SEC.</u>	<u>TWP.</u>	RGE.	ELEV.	DRAINAGE	OBSERVER	RECORD BEGAN
11P10A	Agassiz	32	23N	7E	11200	Little Colorado	SCS-C.F.*	1968
11R7 11R6PSP 9S1APSP 9S15 9S16 10T1 9S6 12P5 12P4 9S10m 12N1	Baker Butte #2 Baker Butte Baldy Baldy #2 Baldy #3 Bear Wallow Beaver Head Bill Williams Intermediate Bill Williams Summit Black River Divide Bright Angel	9 4 28 12 13 6 13 17 17 17 10 34	12N 12N 7N 6N 6N 12S 4N 21N 21N 6N 33N	9E 9E 27E 26E 26E 16E 30E 2E 2E 27E 3E	7700 7300 9125 9750 10950 8100 8000 8550 8950 9400 8400	Verde Verde Little Colorado Little Colorado Gila San Francisco Cataract Verde Salt Bright Angel Creek	SCS SCS SCS SCS FS FS FS FS SCS NPS	1971 1966 1950 1963 1963 1948 1938 1967 1967 1967 1954 1947
12R1 10R7M 10R9P 12P1M 9R7 12R6P 10R8m 9S7 9T2A	Camp Wood Canyon Creek #2 Canyon Point Chalender Cheese Springs Copper Basin Divide Corduroy Creek Coronado Trail Crazy Horse	3 18 28 27 28 23 4 26 34	16N 11N 22N 8N 13N 8N 5N 8S	6W 15E 14E 3E 27E 3W 21E 30E 24E	5700 7500 7600 7100 8600 6720 6000 8000 10200	Verde Little Colorado Salt Verde Little Colorado Verde Salt San Francisco Gila	FS SCS SCS FS SCS SCS SCS FS FS	1946 1958 1967 1947 1969 1963 1954 1938 1963
11P11a	Doyle Saddle	4	22N	7E	10900	Little Colorado	SC S	1968
7T1 7T2	Emory Pass #1 Emory Pass #2	16 16	16S 16S	9W** 9W**	7800 7800	Mimbres Mimbres	SC S SC S	1967 1967
1 OR6 9R5 11 P2P 8S1 MP	Forest Dale Ft. Apache Ft. Valley Frisco Divide	2 18 22 31	9N 7N 22N 6S	21E 27E 6E 20W**	6430 9160 7350 8000	Salt Little Colorado Little Colorado San Francisco	BIA SCS FS FS	1939 1951 1947 1938
12R4 11P1	Gaddes Canyon Grand Canyon	11 21	1 5N 30N	2E 4E	7600 7500	Verde Hance Creek	SC S NPS	1954 1947
9S11P 11R5P 9R10 10R4PSP 9T1A 8S9A	Hannagan Meadows Happy Jack Hawley Lake Heber High Peak Hummingbird	19 30 13 28 34 19	3N 16N 7N 11N 8S 11S	29E 9E 24E 15E 24E 17W**	9090 7630 8300 7600 10500 10550	San Francisco Verde Salt Little Colorado Gila Gila	FS FS BIA SCS FS SCS	1964 1951 1966 1950 1963 1964
11 P 9P 11P8P 12R2	Inner Basin #1 Inner Basin #2 Iron Springs	28 28 22	23N 23N 14N	7E 7E 3W	10000 9750 6200	Little Colorado Little Colorado Bill Williams	C.F.* C.F.* SCS	1967 1967 1946
9S2APSP 7S3A 9R2M 9R1 12R3 8S2 11R4 11R3MAPSP 9S12A	Maverick Fork McKnight Cabin McNary Milk Ranch Mingus Mountain Mogollon Mormon Lake Mormon Mountain Mt. Ord	13 10 23 33 2 13 14 4	6N 15S 8N 8N 15N 11S 18N 18N 6N	27E 10W** 23E 23E 2E 19W** 8E 8E 26E	9150 9300 7200 7000 7100 7000 7350 7500 11200	Salt Mimbres Salt Salt Verde San Francisco Little Colorado Verde Salt	SCS SCS BIA BIA SCS SCS SCS SCS SRP-SCS	1950 1967 1939 1941 1947 1953 1947 1950 1966
11P5M 9S4	Newman Park Nutrioso	25 23	19N 6N	6E 30E	6750 8500 .	Verde San Francisco	SC S FS	1963 1938
11R10	Promontory Butte	5	11N	13E	7930	Little Colorado	SCS	1973
8S7 10T2	Redstone Trail Rose Canyon	5 15	11S 12S	18W** 16E	8600 7300	San Francisco Gila	SCS FS	1961 1948
8S8P 9S14A 11P4 11P6 9S8 9S17	Silver Creek Divide Smith Cienega Snow Bowl #1 Snow Bowl #2 State Line Sunrise Summit	4 10 36 31 6 36	115 6N 23N 23N 6S 7N	18W** 26E 6E 7E 21W** 26E	9000 10050 10260 11000 8000 10600	San Francisco Salt Verde Verde San Francisco Salt	SCS SRP-SCS FS FS SCS	1964 1966 1961 1965 1938 1972
12P2P 12R5 8S10A 12P3 9R6P 10S1P	White Horse Lake Jct. White Spar Whitewater Williams Ski Run Wilson Lake Workman Creek	2 19 19 9 4 33	20N 13N 11S 21N 7N 6N	2E 2W 17W** 2E 26E 14E	7180 6000 10750 7720 9000 6900	Verde Verde Gila Cataract Salt Salt	FS SCS SCS FS SCS FS	1967 1963 1964 1967 1966 1952
	A Aerial Snow Depth Marker a Aerial Snow Depth Marker Only		oil Moisture Statio oil Moisture Statio			cipitation Storage Gage w Pressure Pillow,	** NM Princip * City of Fla	bal Meridian Igstaff

The Following Organizations Cooperate in the Arizona Snow Survey Work

FEDERAL

Department of Agriculture Soil Conservation Service Forest Service Apache Forest Coconino Forest Coronado Forest Gila Forest Kaibab Forest Prescott Forest Rocky Mountain Forest and Range Experiment Station **Tonto Forest** Department of Commerce NOAA, National Weather Service Department of Interior Bureau of Reclamation Region 111 Geological Survey Arizona District New Mexico District Bureau of Indian Affairs Fort Apache Reservation San Carlos Irrigation Project National Park Service Grand Canyon National Park Gila Water Commissioner Safford, Arizona

STATE

Arizona Game and Fish Department

Arizona State Parks Board

Arizona Water Commission

University of Arizona Arizona Agricultural Experiment Station Water Resource Research Center Department of Watershed Management

MUNICIPAL

City of Flagstaff

IRRIGATION PROJECTS

Salt River Valley Water User's Association Phoenix, Arizona San Carlos Irrigation and Drainage District Coolidge, Arizona Maricopa County Municipal Water Conservation District

PRIVATE

Southwest Forest Industries, Inc. McNary, Arizona Fort Apache Indian Reservation White Mountain Recreation Enterprises

Other organizations and individuals furnish valuable information for the snow survey reports. Their cooperation is gratefully acknowledged.

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"The Conservation of Water begins with the Snow Survey"

supply, hydro-electric power generation, navigation, mining and industry